

$L = 1.4\text{m}$

$\frac{H}{2} = \lambda's \quad 2.5\lambda$

$1.4\text{m} = 2.5\lambda$

$\lambda = 0.56\text{m}$

Apr 8-7:32 AM

$89.2\text{cm} = 0.892\text{m}$

$f = 196\text{Hz}$

$V = ?$

$V = f \cdot \lambda$

$\frac{1}{2}\lambda = 0.892\text{m}$

$\lambda = 1.784\text{m}$

$V = 196\text{Hz} \cdot 1.784\text{m} = 349.66\frac{\text{m}}{\text{s}}$

Apr 8-7:42 AM

Closed End

$\frac{1}{4}\lambda_1$ f_1

$\frac{3}{4}\lambda_2$ f_2

$\frac{5}{4}\lambda_3$ f_3

Apr 8-7:49 AM

17.2cm
 0.172m

$\check{V} = f \cdot \check{\lambda}$

$340 = f \cdot 0.68$

$f = 494$

$0.172 = \frac{1}{4}\lambda$

$\lambda = 0.68\text{m}$

Apr 8-7:56 AM

$\frac{0.25\lambda_A}{0.25} = \frac{0.75\lambda_B}{0.25}$

$\lambda_A = 3\lambda_B$

Apr 8-8:02 AM

$d = v t$

$d = 345\frac{\text{m}}{\text{s}} \cdot 0.115\text{s}$

$= 39.675\text{m} \rightarrow \text{down + back}$

$= 19.84\text{m}$

Apr 8-8:04 AM